AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application.

- 1. (Currently Amended) A seabed seismic cable, comprising:
 - a sensor module;
 - at least one first lead to or from the sensor module;
 - a geophone housed in the sensor module;
 - a stress member extending continuously through that portion of the sensor module housing the geophone and independently of any lead;
 - a first sheath enclosing the first lead and the stress member, the first sheath terminating at each end of the sensor module; and
 - at least one mechanical guide in the sensor module deflecting the stress member.
- 2. (Previously Presented) The seismic cable of claim 1, wherein the sensor module further houses one or more of an accelerometer, a hydrophone, a tilt meter, or a magnetometer.
- 3. (Original) The seismic cable of claim 2, wherein the sensor module houses electronics for converting analogue signals to digital signals.
- 4. (Original) The seismic cable of claim 1, further comprising a second lead extending continuously through the sensor module.
- 5. (Original) The seismic cable of claim 4 wherein the second lead is attached to the stress member.
- 6. (Original) The seismic cable of claim 5, further comprising a second sheath enclosing the at least one second lead and the stress member.

- 7. (Original) The seismic cable of claim 4 wherein the at least mechanical guide deflects the second lead.
- 8. (Original) The seismic cable of claim 4, wherein the second lead is an optical lead or an electrical lead.
- 9. (Original) The seismic cable of claim 1, further comprising a plurality of leads bundled into at least one bundle.
- 10. (Original) The seismic cable of claim 9, wherein the bundled leads are enclosed by a protective covering.
- 11. (Previously Presented) The seismic cable of claim 9, wherein the leads include one or more of an optical lead and an electrical lead.
- 12. (Original) The seismic cable of claim 9, wherein the at least one bundle is cylindrical, oval or flat in cross-section.
- 13. (Previously Presented) The seismic cable of claim 1, wherein the stress member comprises one or more of an aramide rope, a steel rope, and a utility cable.
- 14. (Previously Presented) The seismic cable of claim 1, further comprising a pair of rings disposed between the first sheath and the first lead and stress member against which the first sheath may be clamped to terminate the sheath.
- 15. (Original) The seismic cable of claim 14, wherein the sensor module clamps the first sheath against the rings.

- 16. (Previously Presented) The seismic cable of claim 1, wherein the first sheath comprises one or more of a skin, a jacket, or an extrusion matrix.
- 17. (Original) The seismic cable of claim 1, wherein the mechanical guides deflect the first lead.
- 18. (Currently Amended) A seabed seismic cable, comprising:
 - a sensor module;
 - a geophone housed in the sensor module;
 - at least one lead deployed in an SZ winding, wherein the lead extends to or from the sensor module;
 - a stress member extending continuously through that portion of the sensor module housing the geophone and independently of any lead; and
 - a sheath enclosing the leads and the stress member, the sheath terminating at each end of the sensor module.
- 19. (Original) The seismic cable of claim 18, wherein the direction of the SZ winding changes in the sensor module.
- 20. (Currently Amended) A method of producing a seabed seismic sensor cable, comprising: providing a cable core including a stress member and a lead;

enclosing the cable core in a sheath;

providing an opening in the sheath; and

- assembling a sensor module housing a geophone to the cable core over the opening such that the stress member extends continuously through the sensor module independently of any signal lead.
- 21. (Withdrawn) The method of claim 20, wherein providing the cable core includes layering metallic tape under the sheath on the cable core at a location corresponding to the opening.

- 22. (Withdrawn) The method of claim 21, wherein enclosing the cable core includes extruding the sheath over the length of the cable core.
- 23. (Withdrawn) The method of claim 22, wherein providing the opening includes providing an anti-bonding solution.
- 24. (Withdrawn) The method of claim 23, wherein providing the anti-bonding solution comprises stripping the extruded sheath from the cable core over the metallic tape or other type of anti-bonding solution.
- 25. (Withdrawn) The method of claim 20, wherein providing the cable core includes impregnating the cable core with an anti-bonding agent at a location corresponding to the opening.
- 26. (Withdrawn) The method of claim 25, wherein enclosing the cable core includes extruding the sheath over the length of the cable core.
- 27. (Withdrawn) The method of claim 26, wherein providing the opening includes stripping the extruded sheath from the cable core over the anti-bonding agent.
- 28. (Withdrawn) The method of claim 20, further comprising providing a pair of rings on the cable core under the sheath to define a location for the opening.
- 29. (Withdrawn) The method of claim 28, wherein providing the opening includes providing the opening at the defined location for the opening.
- 30. (Withdrawn) The method of claim 28, further comprising clamping the sheath on the rings to terminate the sheath on each end of the opening.

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